PTO/SB/01 (10-01)

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DECLARATION FOR UTILITY OR			Attorney Do	cket Number	215191.0	06400			
DESIGN			First Named	Inventor	George I	R. BAILEY			
PATENT APPLICATION (37 CFR 1.63)			COMPLETE IF KNOWN						
\boxtimes	Declaration Submitted with Initial	Declaration Submitted aft Filing (surcha		Application N	Number				
				Filing Date		09/15/20	03		
ŀ	Filing		(37 ČFR 1.16		Art Unit				
			required)		Examiner Na	ame			
	ne below named inventor		-						
	esidence, mailing address,		-		-				- [
I belie	eve I am the original and first i	nventor of	t the subject ma	atter which is o	daimed and for v	which a patent is so	ught on the i	nvention entitled:	
S	YSTEM AND METHO LOOP LOSS IN A C								, ,
				(Title of the	he Invention)				
the s	pecification of which								ļ
X	is attached hereto								1
	or								ľ
	was filed on (MM/DD/YYYY) as United States Application Number or PCT International					ational			
Application Number and was amended on (N			MM/DD/YYYY)		(if applicable)).		
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.									
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.									
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.									
Pric	or Foreign Application Number(s)	C	ountry		iling Date D/YYYY)	Priority Not Claimed	Ce	rtified Copy A	ttached? NO
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	A Life 16 · · · ·					<u></u>	100/000	<u> </u>	
ш	Additional foreign applica	uon num	ibers are liste	u on a suppl	ementai priorit	iy data sheet PTO	100/UZB at	tacneo nereto:	1

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

DECLARATION – Utility or Design Patent Application

Direct all correction dence to:	stomer Number Bar Code Label	27160 or	Correspondence address below	
Name				
Address				
City		State	Zip	
Country	Telephone		Fax	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.				
NAME OF SOLE OR FIRST INVENTOR:	☐ A pet	tition has been filed for this unsign	ned inventor	
Given Name (first and middle [if any]) George	0 5			
Inventor's Signature			Date 9/15/03	
Residence: City Gaithersburg	State MD	Country USA	Citizenship USA	
Malling Address 3 Victoria Crossing Court				
city Gaithersburg	State MD	zıp 20877	Country USA	
NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor				
Given Name Family Name (first and middle [if any]) Terry or Surname ZHOU				
Inventor's Signature	\$	···	Date 09/15/03	
Residence: City Germantown	State MD	country USA	Citizenship CHINA	
Malling Address 21205 Lake Spray Terrace				
сну Germantown	State MD	zip 20850	country USA	
Additional inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.				

Please type a plu	s sign (+) inside this box	▶	+
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PTO/SB/81 (02-01)

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	Unassigned
Filing Date	09/15/2003
First Named Inventor	George R. BAILEY
Title	Locating and Determining
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	215191.06400

I hereby appoint:	· ····			
X Practitioners at Cus			Place Customer Number Bar Code Label here	
Practitioner(s) name	ed below:			
	Name	Regist	ration Number	
	gent(s) to prosecute the application			
	ates Patent and Trademark Office			
·	pondence address for the above-io	dentified application	on to:	
X The above-mentioned OR	d Customer Number.	Г	Stand Contains	
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Individual Name				
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Address				
City		State	Zip	
Country		1_ 1		
Telephone		Fax		
I am the:				
Applicant/Inventor.				
Assignee of record of the entire interest. See 37 CFR 3.71.				
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).				
SIGNATURE of Applicant or Assignee of Record				
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
Name JAMES H. SCHLECKSER				
Signature Serb H. Shillion				
Date	09/26/2002			
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.				
	s are submitted.			

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)				
Applicant/Patent Owner: George R. BAILEY and Terry ZHOU				
Application No./Patent No.: Unassigned Filed/Issue Date: 09/15/2003				
Entitled: LOCATING AND DETERMINING DISCONTINUITIES FREQUENCY DOMAIN				
SPIRENT COMMUNICATIONS OF , a <u>corporation</u> , (Name of Assignee) ROCKVILLE, INC. (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)				
states that it is:				
1. 🖾 the assignee of the entire right, title, and interest; or				
 an assignee of less than the entire right, title and interest. The extent (by, percentage) of its ownership interest is% 				
in the patent application/patent identified above by virtue of either:				
A. [k] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.				
OR				
B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:				
1. From:To:To:				
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.				
2. From:To:				
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.				
3. From:To:				
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.				
[] Additional documents in the chain of title are listed on a supplemental sheet.				
[x] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]				
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.				
09/26/2002 JAMES H. SCHLECKSER				
Date Typed or printed name				
Signature				
PRESIDENT Title				

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App.	lication N	o
Attorney's	Docket No	. 215191.06400

ASSIGNMENT

THIS ASSIGNMENT, by George R. BAILEY, residing at 3 Victoria Crossing Court, Gaithersburg, Maryland 20877, and TERRY Zhou residing at 21205 Lake Spray Terrace, Germantown, Maryland 20850, (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in SYSTEM AND METHOD FOR LOCATING AND DETERMINING DISCONTINUITIES AND ESTIMATING LOOP LOSS IN A COMMUNICATIONS MEDIUM USING FREQUENCY DOMAIN CORRELATION set forth in an application for Letters Patent of the United States,

	(a) [] bearing Application No, and filed
	on;
	(b) □ to be filed herewith; or
(2)	which is a non-provisional application (a) □ bearing Application No.
	and filed on;
	(b) ⊠ having an oath or declaration executed on even date

herewith prior to filing of application;

(c) having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, <u>Spirent Communications of Rockville</u>, <u>Inc.</u>, a corporation duly organized under and pursuant to the laws of <u>Delaware</u> and having its principal place of business at <u>15200 Omega Drive</u>, <u>Rockville</u>, <u>Maryland 20850-3240</u> (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

Application No. Attorney's Docket No. 215191.06400

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owner of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of KATTEN MUCHIN ZAVIS ROSENMAN OF 1025 THOMAS JEFFERSON STREET, N.W., EAST LOBBY, SUITE 700, Washington, D.C. 20007-5201 to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date 9/15/03 Signature of Assignor

Date $\frac{09/15}{\sqrt{32}}$ Signature of Assignor